

What is claimed is:

1. A transparent skin care composition comprising:

(a) two or more surfactants selected from the group consisting of polyoxyethylene sorbit tetraalkyl ester, polyoxyethylene castor oil ester and/or polyoxyethylene hydrogenated castor oil ester, polyoxyethylene alkyl phosphate or salts, and mixtures thereof;

(b) a oil compound;

(c) a polyhydric alcohol; and

(d) water;

wherein the oil compound is substantially solubilized in the transparent skin care composition.

2. The transparent skin care composition of Claim 1, wherein the ratio of the surfactant to the oil compound is less than 1.0.

3. The transparent skin care composition of Claim 2, wherein the ratio of polyoxyethylene sorbit tetraalkyl ester to polyoxyethylene castor oil ester and/or polyoxyethylene hydrogenated castor oil ester is from about 4 : 1 to about 2 : 3. $\frac{4}{3} : \frac{2}{3} : 1$ $\sim 0.75 : 1$

4. The transparent skin care composition of Claim 2, wherein the ratio of polyoxyethylene alkyl phosphate or salts to polyoxyethylene castor oil ester and/or polyoxyethylene hydrogenated castor oil ester is from about 4 : 1 to about 2 : 3. $\frac{4}{3} : \frac{2}{3} : 1$ $\sim 0.75 : 1$ $(.2 : 1)$

5. The transparent skin care composition of Claim 2, wherein the ratio of polyoxyethylene sorbit tetraalkyl ester to polyoxyethylene alkyl phosphate or salts is from about 3 : 2 to about 2 : 3. $\frac{3}{2} : \frac{2}{3} : 1$ $\sim 0.5 : 0.66 : 1$

6. The transparent skin care composition of Claim 1, wherein the oil compound is selected from the group consisting of mineral oil, petrolatum, C7-40 straight and branched hydrocarbons, C1-30 alcohol esters of C1-30 carboxylic acids and of C2-30 dicarboxylic acids, vegetable oils and hydrogenated vegetable oils; animal fats and oils, and C4-20 alkyl ethers

of polypropylene glycols, C₁₋₂₀ carboxylic acid esters of polypropylene glycols, di-C₈₋₃₀ alkyl ethers, essential oils, and a liquid polyol carboxylic acid ester having a polyol moiety and at least 4 carboxylic acid moieties ester.

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7. The transparent skin care composition of Claim 6, wherein the composition further comprising an optional component selected from the group consisting of a water-soluble polymeric thickening agent, a pH adjuster, and an active.

8. A transparent skin care composition comprising:

- (a) from about 0.001 to about 5.0% of two or more surfactants selected from the group consisting of polyoxyethylene sorbit tetraalkyl ester, polyoxyethylene castor oil ester and/or polyoxyethylene hydrogenated castor oil ester, polyoxyethylene alkyl phosphate or salts, and mixtures thereof;
- (b) from about 0.001 to about 5.0% of an oil compound;
- (c) from about 0.01 to about 10% of a polyhydric alcohol; and
- (d) from about 60 to about 99.8% of water;

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wherein the oil compound is substantially solubilized in the transparent skin care composition.

9. The transparent skin care composition of Claim 8, wherein the oil compound is selected from the group consisting of mineral oil, petrolatum, C₇₋₄₀ straight and branched hydrocarbons, C₁₋₃₀ alcohol esters of C₁₋₃₀ carboxylic acids and of C₂₋₃₀ dicarboxylic acids, vegetable oils and hydrogenated vegetable oils, animal fats and oils, and C₄₋₂₀ alkyl ethers of polypropylene glycols, C₁₋₂₀ carboxylic acid esters of polypropylene glycols, di-C₈₋₃₀ alkyl ethers, essential oils, and a liquid polyol carboxylic acid ester having a polyol moiety and at least 4 carboxylic acid moieties ester.

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10. The transparent skin care composition of Claim 9, wherein the composition further comprising an optional component selected from the

The $\mathcal{O}(n^2)$ complexity of the algorithm is due to the fact that the number of iterations is bounded by n and the number of operations per iteration is bounded by n . The algorithm is implemented in C++ and runs on a standard desktop computer.